

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/009154

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/24 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L G06F H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 101 34 356 A (KLEIN, PETER) 23 January 2003 (2003-01-23) paragraph '0006! - paragraph '0023!; figure 1 claim 12	1-7, 12
Y	-----	8-11
Y	EP 1 251 656 A (CIT ALCATEL) 23 October 2002 (2002-10-23) paragraph '0007! - paragraph '0039!	8-11
A	US 2003/018899 A1 (ZIMMERMANN RAINER ET AL) 23 January 2003 (2003-01-23) paragraph '0002! - paragraph '0046!; claim 16; figure 1 ----- -/--	1-12

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *Z* document member of the same patent family

Date of the actual completion of the international search

22 December 2004

Date of mailing of the international search report

29/12/2004

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl
Fax (+31-70) 340-3016

Authorized officer

Günther, S

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/009154

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 101 55 755 A1 (SIEMENS AG) 22 May 2003 (2003-05-22) the whole document	1-12
A	EP 1 076 279 A (HEWLETT PACKARD CO) 14 February 2001 (2001-02-14) paragraph '0001! - paragraph '0017! paragraph '0161! - paragraph '0172!	1-12
A	DE 198 45 610 A (ABB RESEARCH LTD) 6 April 2000 (2000-04-06) the whole document	1-12
A	US 2002/029347 A1 (EDELMAN MARTIN S) 7 March 2002 (2002-03-07) paragraph '0056! - paragraph '0118!; figures 1,7	1-12

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/009154

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 10134356	A	23-01-2003	DE 10134356 A1	23-01-2003
EP 1251656	A	23-10-2002	EP 1251656 A1	23-10-2002
US 2003018899	A1	23-01-2003	EP 1300792 A2	09-04-2003
DE 10155755	A1	22-05-2003	US 2003125975 A1	03-07-2003
EP 1076279	A	14-02-2001	EP 1076279 A1	14-02-2001
			DE 60002893 D1	26-06-2003
			DE 60002893 T2	13-05-2004
			EP 1203278 A1	08-05-2002
			EP 1204910 A1	15-05-2002
			WO 0113198 A1	22-02-2001
			WO 0113199 A1	22-02-2001
			JP 2003507784 T	25-02-2003
			JP 2003507785 T	25-02-2003
DE 19845610	A	06-04-2000	DE 19845610 A1	06-04-2000
US 2002029347	A1	07-03-2002	AU 8689801 A	13-03-2002
			CA 2421494 A1	07-03-2002
			JP 2004507847 T	11-03-2004
			WO 0219611 A1	07-03-2002

BEST AVAILABLE COPY